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IN THE CLAIMS:

1. (CURRENTLY AMENDED) A self-energizing brake assembly comprising:
a support pivotally mounted at an angle relative to a rotatable brake member; and
a brake pad movable along said support between engaged and disengaged positions
with said rotatable brake member to generate a braking force between said brake pad and said
the rotatable brake member, wherein said angle of said support is variable for controlling a
gain in said braking force.
2. (ORIGINAL) The assembly as recited in claim 1, wherein said brake pad
comprises a wedge and a friction element pivotally mounted to said wedge.
3. (CURRENTLY AMENDED) The assembly as recited in claim 2, wherein
engagement between said friction element and ~~said~~ the rotatable brake member drives said
brake pad along said support toward ~~said~~ the rotatable brake ~~member~~ element to increase
braking force.
4. (CURRENTLY AMENDED) The assembly as recited in claim 1, comprising
an adjustable member biasing said support toward ~~said~~ the rotatable brake member.
5. (ORIGINAL) The assembly as recited in claim 4, wherein said adjustable
member comprises a compliant member.
6. (ORIGINAL) The assembly as recited in claim 4, wherein said adjustable
member comprises a linear actuator.
7. (WITHDRAWN, CURRENTLY AMENDED) The assembly as recited in
claim 1, comprising a release spring to bias said brake pad in a direction opposing rotation of
~~said~~ the rotatable brake member.

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8. (CURRENTLY AMENDED) The assembly as recited in claim 1, comprising a drive actuator to apply a force to said brake pad by decreasing said angle between said the rotatable brake member and said support.

9. (WITHDRAWN, CURRENTLY AMENDED) The assembly as recited in claim 8, comprising a release actuator to move said support to adjust said angle between said the rotatable brake member and said support.

10. (WITHDRAWN) The assembly as recited in claim 9, wherein said drive actuator includes a drive link pivotally attached to said support, and said release actuator includes a release link, said release link and drive link including an interconnection such that actuation of said release link moves said drive link to increase said angle.

11. (WITHDRAWN) The assembly as recited in claim 10, wherein said interconnection comprises corresponding ramped surfaces on said drive link and said release link to move said drive link transversely relative to movement of said release link.

12. (CURRENTLY AMENDED) The assembly as recited in claim 1, wherein said brake pad contacts an outer perimeter of said the rotatable brake member.

13. (CURRENTLY AMENDED) The assembly as recited in claim 1, wherein said brake pad contacts planar surfaces of said the rotatable brake member.

14. (CURRENTLY AMENDED) A method of controlling braking force gain created by a self-energizing brake assembly comprising the steps of:

- a.) supporting a brake pad on a support at an angle relative to a rotatable brake member; and
- b.) changing a distance the angle of the support of said support relative to said the rotatable brake member in response to a predetermined for controlling a gain in braking force.

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15. (CURRENTLY AMENDED) The method as recited in claim 14, wherein said step a.) comprises is further defined as slidably supporting the brake pad at an angle relative to the rotatable brake member, and varying said the angle relative to the gain in braking force.

16. (WITHDRAWN) The method as recited in claim 14, comprising biasing the brake pad in a direction counter to rotation of the rotatable brake member.

17. (CURRENTLY AMENDED) The method as recited in claim 14, comprising biasing the brake pad toward engagement with the rotatable brake member with an adjustable member, and moving the adjustable member in proportion to the gain in braking force.

18. (CURRENTLY AMENDED) The method as recited in claim 14, wherein said step b.) comprises moving the brake pad away from the rotatable brake member in response to a predetermined magnitude of the gain in braking force.

19. (NEW) A self-energizing brake assembly comprising:
a support pivotally mounted at an angle relative to a rotatable brake member;
a brake pad movable along said support between an engaged position and a disengaged position with the rotatable brake member to generate a braking force against movement of the rotatable brake member, wherein said braking force comprises an applied force and a gain component generated in excess of said applied force; and
an actuator for varying said angle of said support for controlling said gain component of said braking force.

20. (NEW) The assembly as recited in claim 19 wherein said actuator is a biasing member.

21. (NEW) The assembly as recited in claim 19 wherein said actuator is a linear actuator.

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22. (NEW) The assembly as recited in claim 1, wherein said braking force comprises a constant applied force component and a generated gain component provided by the self-energizing brake assembly and said generated gain component is controlled by varying said angle of said support.